高级数据结构和算法分析

Advanced Data Structures and Algorithm Analysis

主讲教师: 丁尧相

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Course website:

https://yaoxiangding.github.io/ADS-2024

Courseware and homework sets can be downloaded from https://pintia.cn/

基本信息:

Lecture Time:

Monday 6-8 (every week), 紫金港西1-408 Monday 9-10 (lab, every week), 紫金港机房

Teacher: 丁尧相 Yao-Xiang Ding

Office: 519 Meng Minwei Building, Zijingang Campus

E-Mail: yxding@zju.edu.cn

Office hours: Wednesday 15:00-17:00

(Please make appointment on Ding Ding or E-Mail. For unexpected visits, I have to aplogize for the possible absence.)

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课程评分方法 (Grading Policies)





Discussions (10)



Research Project (30)



MidTerm (10*)

Total \leq 60 (up to 5 bonus within 60)

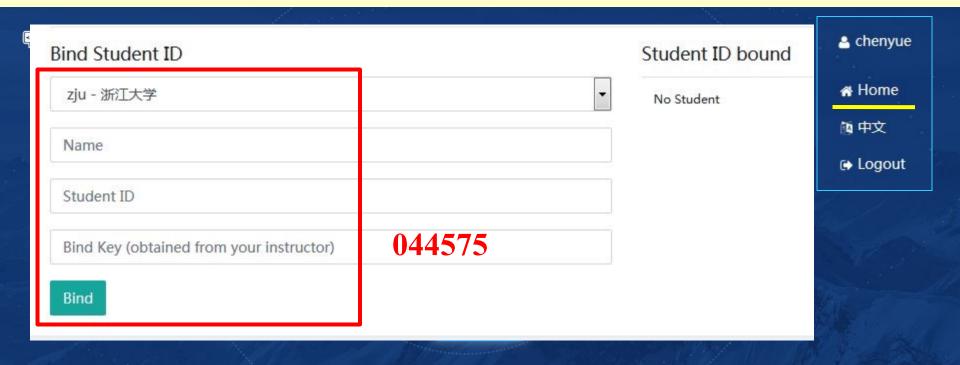


Final Exam (40*)



Homework Assignments (10)

- Register and login at https://pintia.cn/
- Bind your student ID with bind key
- **Enter**





- **♦** Done in groups of <=3
- **♦** choose 2 out of 8 topics
- ◆ Report (15+15 points)
- **♦** Submit before the exam week
- **♦** Follow the style file



Discussions (10)

- > Done in the same group to projects
- ➤ 4 times to submit course suggestions (in pdf), each scores 2.5, including:
 - > Content want to learn
 - > Hard parts for more explanations
 - > Hard problems to solve
 - > Suggestions on teaching
 - > ...



- **♦** One of the Tasks:
 - **♦** bonus problems within projects (group)
 - on-course project presentations (group)
 - on-course topic sharing (individual)
 - **♦** technical notes (individual)
 - ◆ +1 completion of projects (group)
- ◆ Grading: no-pass (0), pass (3), good job (5)
- **◆** Doing multiple tasks will receive the maximum score for one of the tasks.



Representation Schedule

1	Α	В
1	实验汇报	专题
2		
3		
4		
5		
6	1	
7	1	
8		1
9		
10	1	
11	1	
12	1	
13	1	
14		1
15	1	
16	1	



- **♦** One week for one project in order
- **♦** Should also complete the project report
- **♦** In-class presentation (10~15 minutes)
- **♦** The speaker can be chosen freely in the group. While the contributions of the members in the projects should be clarified.
- **◆** If there are many volunteers, at most 3 groups will be chosen to give presentations with first-come-first-serve.



- **♦** Two times: 1 for data structure 2 for algorithm
- **◆** In-class presentation (10-15 minutes)
- **◆** Topic can be chosen freely while need to be presubmitted and approved.
- **◆** If there are many volunteers, at most 3 topics will be chosen to give presentations with first-comefirst-serve.



- **♦** Similar to topic sharing but without representations.
- ◆ Need to be >= 5 page pdf report.
- **◆** Submit before week 16.
- **♦** Will be distributed to classmates.
- **◆** Maybe harder to get the good-job score unless indeed well done (:-P).